

1/5

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GmmoriAe .....CTACGG GTAACATCTT TATTAGTTAT
GmmoriAc .....GCT TTGTCTACGG GTAACATCTT TATTAGTTAT

GmmoriAe CGTAAAATAA CAGATTGTAG AAATGAAGTT TACAGGAATA TTCTTCATAA
GmmoriAc CGTAAAATAA CAGATTGTAG AAATGAATTT TACAGGAATA TTCTTCATGA

GmmoriAe TTATGGCGAT CATTGCCCTC TTTATAGGGT CAAATGAAGC GGCGCCTAAA
GmmoriAc TTATGGCGAT CATTGCCCTC TTTATAGGGT CAAATGAAGC GGCGCCTAAA

GmmoriAe GTCAATGTTA ATGCCATTAA GAAGGGAGGA AAGGCCATAG GAAAAGGATT
GmmoriAc GTCAATGTTA ATGCCATTAA GAAGGGAGGA AAGGCCATAG GAAAAGGATT

GmmoriAe TAAAGTAATC AGTGCGGCGA GTACAGCGCA TGACGTCTAT GAACACATTA
GmmoriAc TAAAGTAATC AGTGCGGCGA GTACAGCGCA TGACGTCTAT GAACACATTA

GmmoriAe AAAACAGAAG GCACTAATAA AACCAAAAAAT AATTATTTAT TTTATAAGGT
GmmoriAc AAAACAGAAG GCACTAATAG AACCAAAAAAT AATCATTTAT TTTATAAGGT

GmmoriAe AATTTTAAGA CATATAATGT ATGTTGCAA TTATTAAGTG AAATAAAATA
GmmoriAc AATTTTAAGA CATATAATGA ATGTTGCAA TTATTAAGTG GAATAAAATA

GmmoriAe TAAATATTT TTTGTT
GmmoriAc TAAATATTT TTTGTT

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Figure 1

	1		50
GmmoriAe	MKFTGIFFII	MAIIALFIGS	NEAAPKVVVN AIKKGGAIG KGFKVISAAS
GmmoriAc	M <u>N</u> FTGIFF <u>M</u> I	MAIIALFIGS	NEAAPKVVVN AIKKGGAIG KGFKVISAAS
	51	64	
GmmoriAe	TAHDVYEH	IK NRRH*	
GmmoriAc	TAHDVYEH	IK NRRH*	

Figure 2

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1  GGTAACATCTTTATTAGTTATCGTAAAATAACAGATTGTAGAAATGAAGTTTACAGGAAT  60
    MetLysPheThrGlyIl
61  ATTCTTCATAATTATGGCGATCATTGCCCTCTTTATAGGGTCAAATGAAGCGGCGCCTAA 120
    ePhePheIleIleMetAlaIleIleAlaLeuPheIleGlySerAsnGluAlaAlaProLy
121 AGTCAATGTTAATGCCATTAAGAAGGGAGGAAAGGCCATAGGAAAAGGATTAAAGTAAT 180
    sValAsnValAsnAlaIleLysLysGlyGlyLysAlaIleGlyLysGlyPheLysValIl
181 CAGTGC GCGAGTACAGCGCATGACGTCTATGAACACATTAAAAACAGAAGGCACTAATA 240
    eSerAlaAlaSerThrAlaHisAspValTyrGluHisIleLysAsnArgArgHis***
241 AAACCAAAAATAATTATTTATTTTATAAGGTAATTTTAAGACATATAATGTATGTTGCAA 300

301 ATTATTAAGTGAAATAAAATATAAAATATTTTTTGT

```

Figure 3

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1  GTTATTTTTTAAAGATCAAAGCGTAATTAATTCATTGTGCTGTGTCTGAAAGGAACAAAA  60
    M
61  TGAGATTGTCCATAATATTGGTCGTTGTGATGATGGTGATGGCTATGTTTGTGAGCAGTG 120
    etArgLeuSerIleIleLeuValValValMetMetValMetAlaMetPheValSerSerG
121 GAGATGCGGCGCCTGGAAAAATTCCTGTGAAAGCGATTAAAAAAGGAGGGCAAATTATTG 180
    lyAspAlaAlaProGlyLysIleProValLysAlaIleLysLysGlyGlyGlnIleIleG
181 GTAAAGCTCTGCGTGGAATCAATATAGCGAGTACTGCACATGACATAATTAGCCAGTTCA 240
    lyLysAlaLeuArgGlyIleAsnIleAlaSerThrAlaHisAspIleIleSerGlnPheL
241 AACC GAAAAAGAAGAAAAACCAT TGAGTATTTAATAAAAAATCGTTCAATAATATATTTA 300
    ysProLysLysLysLysAsnHis***
301 ATAATAATAATAAATTTTACTTATATTACTATAATATAATTAATATTTTAAATTGTGCCA 360
361 TTTTAGTTTTATAAATTATATTAAGTATTAATTTTATAATTAATAAAAAAGCTTAAATAT

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Figure 4

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1 GTAACAGTACCACCGTGTACAGTCGCAGTAGTTAGTCTTCAATCTTAGTGAAAACCTCGC

61 TTCTCTTTATCAACCATGAAGCTGACCGGTCTATTTTTTCATGATCATGGCGCATGCTCGCC  
MetLysLeuThrGlyLeuPhePheMetIleMetAlaMetLeuAla  
Val

121 CTGTTTGTGTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTTGGCGCCATCAAGAAGGGT  
LeuPheValGlyAlaGlyGlnAlaAspProLysValProIleGlyAlaIleLysLysGly

181 GGCAAAATTATTAATAAAGGTCTTGGTGTAAATTGGTGCCGCTGGTACAGCGCATGAAGTA  
GlyLysIleIleLysLysGlyLeuGlyValIleGlyAlaAlaGlyThrAlaHisGluVal

241 TATAGCCACGTCAAGAACAGGCATTAGATTCTTGAAGAATATATAGTATATAATTATGAA  
TyrSerHisValLysAsnArgHis\*\*\*

301 GTACTATCCTTTTGTATATGTGACTAAGTGCATAATGTAAAGTCAAATGAAATATATATT

361 ATTTATCCTCGTGCC

### Figure 5

1 ACTTCATTGTGTACAGTTGCAGGACTTAATACTTAGTGAACTACTTACTCCTCGTTACCA

61 ACCATGAAGCTGACCGGTCTATTTCTCATGATCATGGCGGTGCTCGCGCTGTTTGTGGC  
*MetLysLeuThrGlyLeuPheLeuMetIleMetAlaValLeuAlaLeuPheValGly*

121 GCTGGTCAAGCCGACCCTAAGGTGCCCATTTGGCGCTATCAAGAAGGGCGGCAAAATTATT  
*AlaGlyGlnAlaAspProLysValProIleGlyAlaIleLysLysGlyGlyLysIleIle*

181 AAAAAGGGTCTAGGTGTGCTTGGCGCCGCGGGCACAGCGCACGAAGTGTACAACCACGTT  
**LysLysGlyLeuGlyValLeuGlyAlaAlaGlyThrAlaHisGluValTyrAsnHisVal**

241 AGGAACAGGCAGTAACGTCATGCGTGATTGTTGTACATACAGTACTTACAATACGATTTG  
**ArgAsnArgGln\*\*\***

301 TCTTGGCTGTGATATATCTTTAGATAAATTAATTTATAATACCACATACTTATTAGTAA

361 ATACTCAAATATATTGATTATAGATACATTAATAAATATTAATTATTACAATATTTTGT

421 TTTATGTACAATGCGAATAGATTCTACCCTCTGCCTCGTGCC

### Figure 6

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GmmoriC1  GTAACAGTACCACCGTGACAGTCGCAGTAGTTAGTCTTCAATCTTAGTGAAAACCTTCGC  60
GmmoriC2  .....ACTTCATTGTGTACAGTTGCAGGACTTAATA.....CTTAGTGAAC TACTTAC  48

GmmoriC1  TTCTCTTTATCAACCATGAAGCTGACCGGTCTATTTTTCATGATCATGGCGATGCTCGCC  120
GmmoriC2  TCCTCGTTACCAACCATGAAGCTGACCGGTCTATTTCTCATGATCATGGCGGTGCTCGCG  108

GmmoriC1  CTGTTTGTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCCATCAAGAAGGGT  180
GmmoriC2  CTGTTTGTGGCGCTGGTCAAGCCGACCCTAAGGTGCCCATTGGCGCTATCAAGAAGGGC  168

GmmoriC1  GGCAAAATTATTAAAAAAGGTCTTGGTGTAATTGGTGCCGCTGGTACAGCGCATGAAGTA  240
GmmoriC2  GGCAAAATTATTAAAAAAGGTCTAGGTGTGCTTGGCGCCGCGGGCACAGCGCACGAAGTG  228

GmmoriC1  TATAGCCACGTCAAGAACAGGCATTAGATTCTTGAAGAATATATAGTATATA.ATTA..T  297
GmmoriC2  TACAACCACGTTAGGAACAGGCAGTAACGTCATGCGTGAT.TGTTGTACATACAGTACTT  287

GmmoriC1  GAAGTACTATCC.TTTTGTATATGTGAC.TAAGTGCATAATGTAAAGTCAAATGAAATAT  355
GmmoriC2  ACAATACGATTTGTCTTGGCTGTGATATATCTTTAGATAAATTAATTTATAATACCACAT  347

GmmoriC1  A..TATTATTTA..TCCTCGTGCC  375
GmmoriC2  ACTTATTAGTAAAAATACTCAAATA.....  462

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**Figure 7**

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GmmoriC1  MKLTGLFFMIMAMLALFVGAGQADPKVPIGAIKKGGKIIKKGLGVIGAAG
GmmoriC2  MKLTGLFLMIMAVLALFVGAGQADPKVPIGAIKKGGKIIKKGLGVLGAAAG

GmmoriC1  TAHEVYSHVKNRH
GmmoriC2  TAHEVYNHVRNRQ

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**Figure 8**

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Bmmor	MNILKFFVFVIVAMSLVSCS-TAAPAKIPIKAIKTVGKAVGKGLRAINIASTANDVFNFLKPKKRRKH-
Hpmor	-----AMSLVSCS-TAAPAKIPIKAIKTVGKAVGKGLRAINIASTANDVFNFLKPKKRRKH-
Hvvir	-----GKIPIGAIAKKAGKAIGKGLRAVNIASTAHVYTFKPKKR-H-
Slmor	MKLTKVFVILIVVVALLVPS-EAAPGKIPVKAIAKKAGAAIGKGLRAINIASTAHVYSFFKPKHKKKH
Semor	MKLTKVFVIVIVVVALLVPS-EAAPGKIPVKAIAKKAGTAIGKGLRAINIASTAHVYSFFKPKHKKKH
Msmor	MKLTSLFIFVIVALSLFSSTDAAPGKIPVKAIAKQAGKVIKGLRAINIAGTTHDVVSFFRPKKHH-
CiPl647	-----RKIPVEAIAKKG---ASRAWRALDLASTAYDIASIFN--RKRE-
CiPl648	-----GKIPVEALKKGAKVAGRAWRALDLASTAYDIAHLFD--RKRN-
CiPl646	-----GKIPINAIRKGAKAVGHGLRALNIASTAHDIASAFH--RKRKH
GmmoriB	MRLSIILVVMMVMAMFVSSGDAAPGKIPVKAIAKKGGQIIGKALRGINIASTAHDIISQFKPKKKKNH
GmmoriC1	MKLTLGFFMIMAMLALFVGAGQADP-KVPIGAIAKKGGKI I KKGLGVIGAAGTAHEVYSHVKNRH----
GmmoriC2	MKLTLGLFLMIMAVLALFVGAGQADP-KVPIGAIAKKGGKI I KKGLGVIGAAGTAHEVYNHVRNRQ----
BmmorX	MYFLKYFIVVLVALSLMICSGQADP-KIPVKSLLKGGKVIKAGFKVLTAAAGTAHEVYSHVRNRGNQG-
GmmoriA	MKFTGIFFIIMAI I ALFIGSNEAAP-KVNVNAIAKKGGKAIGKGFKVISAAASTAHDVYEHKNNRH---

Figure 9